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WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**COLORADO STATE UNIVERSITY EXPERIMENT STATION
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO**

AS OF
APR. 1, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE | ADDRESS |
|--------------------|---|
| Alaska | 204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501 |
| Arizona | 6029 Federal Building, Phoenix, Arizona 85025 |
| Colorado (N. Mex.) | P. O. Box 17107, Denver, Colorado 80217 |
| Idaho | Room 345, 304 N. 8th. St., Boise, Idaho 83702 |
| Montana | P. O. Box 98, Bozeman, Montana 59715 |
| Nevada | P. O. Box 4850, Reno Nevada 89505 |
| Oregon | 1220 S.W. Third Ave., Portland, Oregon 97204 |
| Utah | 4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 |
| Washington | 360 U.S. Court House, Spokane, Washington 99201 |
| Wyoming | P. O. Box 2440, Casper, Wyoming 82601 |

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III - RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

WATERSHED IV - RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrieth, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.

WATERSHED VI - GUNNISON RIVER WATERSHED

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Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and Mt. Sopris Soil Conservation Districts.

WATERSHED VIII - YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

WATERSHED IX - LOWER SOUTH PLATTE RIVER WATERSHED

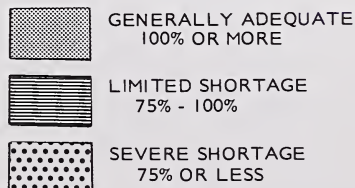
Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

APPENDIX I - SNOW SURVEY MEASUREMENTS

APPENDIX II - SOIL MOISTURE MEASUREMENTS

WATER SUPPLY OUTLOOK

as of
APRIL 1, 1976



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

WATER SUPPLY CONDITIONS

as of

APRIL 1, 1976

FORECASTS OF WATER SUPPLIES ARE RELATIVELY UNCHANGED FROM LAST MONTH EXCEPT FOR NEW MEXICO WHERE FORECASTS WERE LOWERED. MOST OF COLORADO IS EXPECTED TO HAVE STREAMFLOW NEAR AVERAGE WITH TWO EXCEPTIONS. IN THE FRONT RANGE FROM CLEAR CREEK DRAINAGE IN THE SOUTH TO THE BIG THOMPSON DRAINAGE IN THE NORTH LIMITED WATER SHORTAGES ARE EXPECTED. STREAMS WITH HEADWATERS IN THE SAN JUAN MOUNTAINS SHOULD FLOW TEN TO TWENTY PERCENT ABOUT NORMAL. NEAR AVERAGE ACCUMULATIONS OF SNOW WERE RECEIVED DURING THE MONTH OF MARCH. THE MOUNTAIN SNOWPACK IS NOW VERY NEAR ITS MAXIMUM FOR THE SEASON.



COLORADO -- PROJECTED STREAMFLOW IS EXPECTED TO BE NEAR AVERAGE OVER MOST OF THE STATE. SNOWFALL IN THE MOUNTAINS DURING MARCH WAS NEAR NORMAL. A LOW SNOWPACK STILL EXISTS IN THE FRONT RANGE ON THE HEADWATERS OF CLEAR CREEK, ST. VRAIN, BOULDER, AND BIG THOMPSON DRAINAGES. SPRING AND SUMMER MELT-WATER FROM THE SAN JUAN MOUNTAINS SHOULD PRODUCE STREAMFLOW TEN TO TWENTY PERCENT ABOVE NORMAL BARRING ANY LARGE DEPARTURES FROM THE NORMAL SPRING PRECIPITATION PATTERN. RESERVOIR STORAGE IS AVERAGE FOR THIS TIME OF YEAR. SOIL MOISTURE IS FAIR TO POOR IN MOST IRRIGATED AREAS.

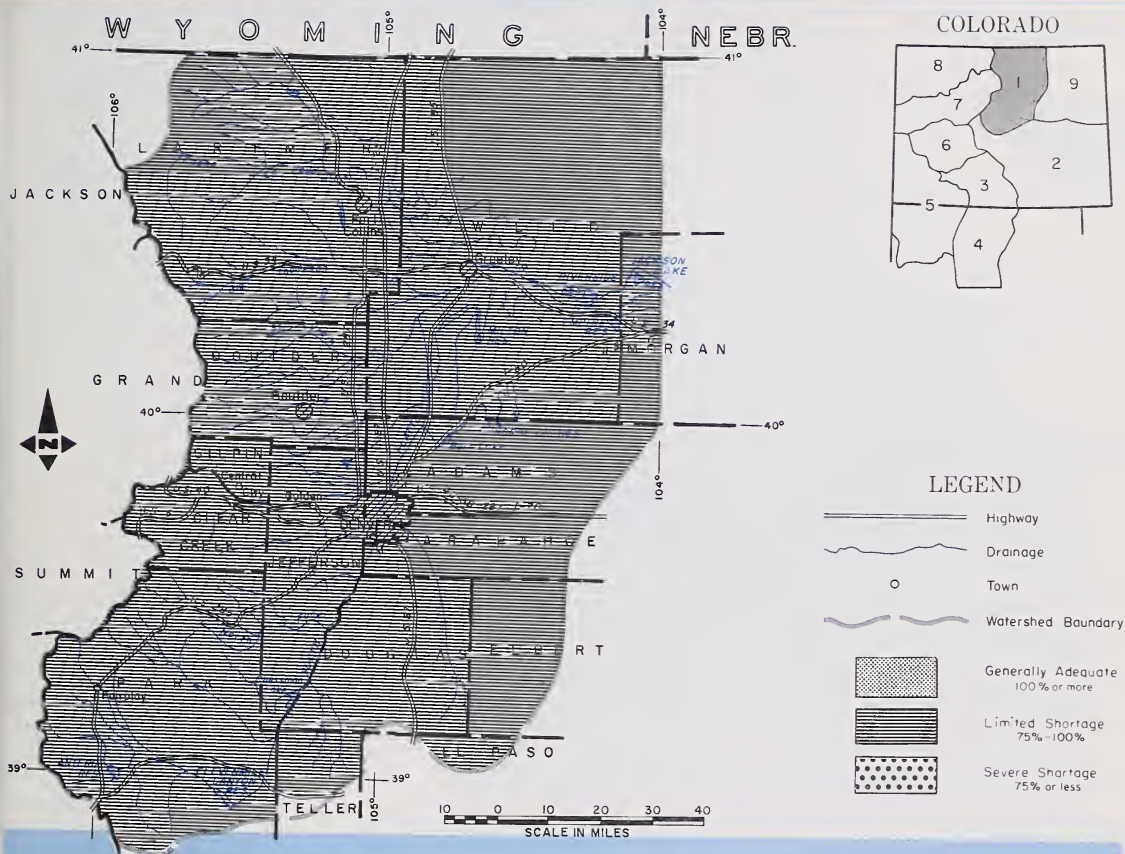


NEW MEXICO -- STREAMFLOW FORECASTS ON STREAMS ORIGINATING IN NEW MEXICO HAVE DROPPED FROM LAST MONTH AS A RESULT OF SLIGHTLY BELOW AVERAGE SNOWFALL DURING MARCH. STREAMFLOW SHOULD RANGE FROM TWENTY-FIVE PERCENT BELOW NORMAL ON THE JEMEZ AND SANTA CRUZ DRAINAGES TO FIFTEEN PERCENT ABOVE ON THE RIO GRANDE. THE HIGHER FLOWS ON THE RIO GRANDE REFLECT THE GOOD SNOWPACK IN THE SAN JUAN MOUNTAINS OF COLORADO. SOIL MOISTURE IN VALLEY AREAS REMAINS POOR IN MOST AREAS. RESERVOIR STORAGE IS HIGHLY VARIABLE.

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1976

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS ON THE SOUTH PLATTE AND ITS NORTHERN TRIBUTARIES WERE LOWERED DUE TO DEFICIENT SNOWFALL DURING MARCH. FLOWS ARE NOT FORECASTED AS CRITICAL BUT SEVERAL ARE IN THE 70% RANGE. SNOW CAN BE EXPECTED TO ACCUMULATE FOR ANOTHER MONTH UNDER NORMAL CONDITIONS. CARRYOVER STORAGE IS SLIGHTLY ABOVE NORMAL.

This report prepared by

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| FORECAST POINT | FORECAST | % of Average | Average* |
|---|----------|--------------|----------|
| Big Thompson River at Drake (1) | 92 | 86 | 107 |
| Boulder Creek at Orodell | 36 | 73 | 49 |
| Cache La Poudre River at Canyon Mouth (2) | 210 | 85 | 247 |
| Clear Creek at Golden (3) | 92 | 72 | 127 |
| St. Vrain Creek at Lyons (4) | 60 | 80 | 75 |

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|-------------------------------|---------------|-------------|
| | Spring Season | Late Season |
| Bear Creek | Avg. | Fair |
| Coal Creek | Fair | Fair |
| North Fork of South Platte | Fair | Fair |
| North Fork of Cache La Poudre | Avg. | Fair |
| Ralston Creek | Fair | Fair |
| Rock Creek | Fair | Fair |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|-----------------|-----------------|----------------|-----------|----------|
| | | This Year | Last Year | Average* |
| Antero | 33 | 16 | 16 | 14 |
| Barr Lake | 32 | 27 | 29 | 25 |
| Black Hollow | 8 | 5 | 5 | 4 |
| Boyd Lake | 44 | 38 | 37 | 38 |
| Cache La Poudre | 10 | 7 | 7 | 8 |
| Carter Lake | 109 | 102 | 107 | 95 |
| Chambers Lake | 9 | 3 | 4 | 3 |
| Cheesman | 79 | 47 | 44 | 59 |
| Cobb Lake | 34 | 16 | 17 | 15 |
| Eleven Mile | 98 | 97 | 97 | 88 |
| Fossil Creek | 12 | 7 | 8 | 8 |
| Gross | 43 | 19 | 19 | 28 |
| Halligan | 6 | 2 | 6 | 5 |
| Horsetooth | 144 | 121 | 103 | 111 |
| Lake Loveland | 14 | 10 | 10 | 10 |
| Lone Tree | 9 | 5 | 6 | 7 |
| Mariano | 5 | 5 | 5 | 5 |
| Marshall | 10 | 5 | 7 | 5 |
| Marston | 18 | 14 | 16 | 15 |
| Milton | 24 | 16 | 15 | 14 |
| Standley | 42 | 33 | 32 | 19 |
| Terry | 8 | 6 | 6 | 5 |
| Union | 13 | 11 | 12 | 10 |
| Windsor | 19 | 15 | 12 | 12 |

* 1958-1972 period.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------|
| | | Last Year | Average* |
| Big Thompson | 5 | 86 | 91 |
| Boulder | 3 | 78 | 82 |
| Cache La Poudre | 7 | 99 | 104 |
| Clear Creek | 6 | 69 | 81 |
| Saint Vrain | 3 | 75 | 82 |
| South Platte | 3 | 70 | 95 |

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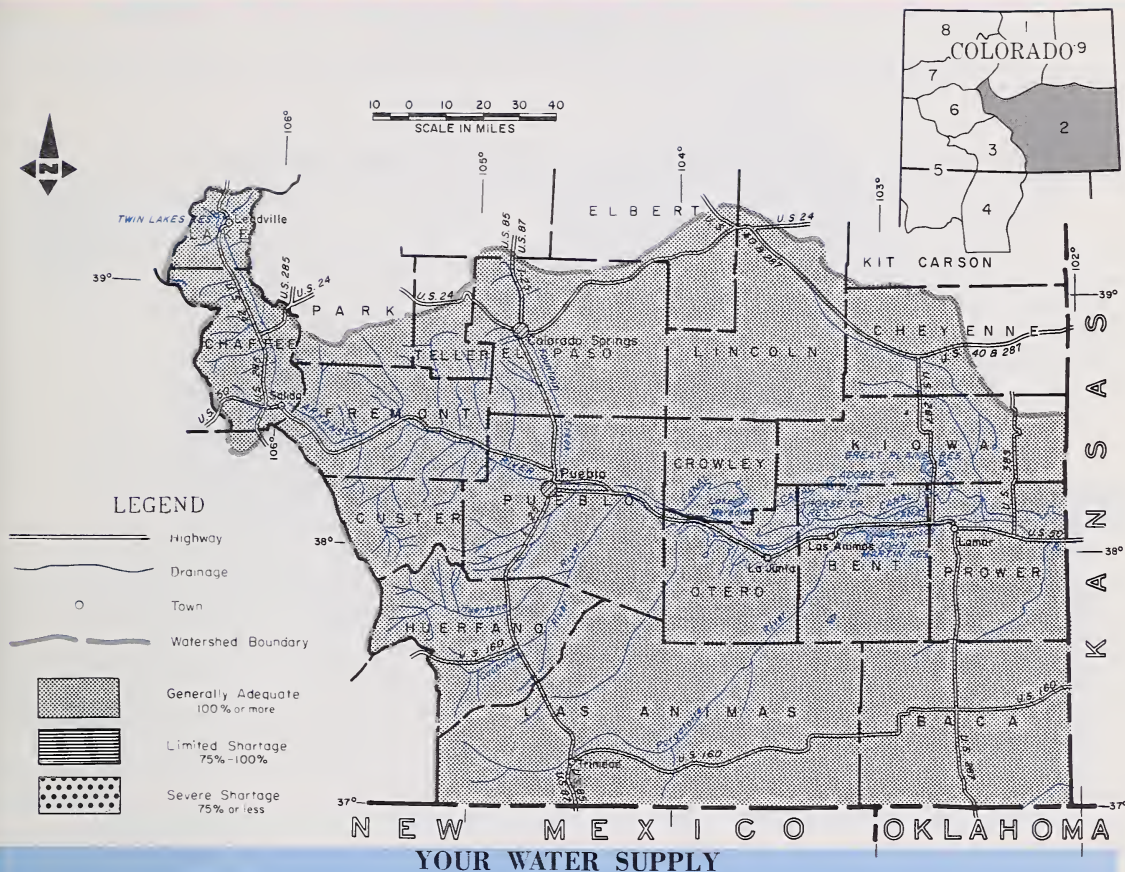


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1976

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW IS FORECAST TO BE NEAR TO SLIGHTLY BELOW AVERAGE ON ALL STREAMS.

SNOWFALL DURING MARCH WAS NEAR NORMAL. THE MOUNTAIN SNOWPACK IS NEAR MAXIMUM FOR THE SEASON AND WILL SOON BEGIN TO RELEASE ITS STORED WATER. SOIL MOISTURE IN IRRIGATED AREAS REMAINS POOR. CARRYOVER STORAGE IS MUCH BELOW NORMAL IN NEARLY ALL RESERVOIRS.

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORE-CAST | % of Average | Average * |
|--------------------------------|-----------|--------------|-----------|
| Arkansas River near Pueblo (1) | 300 | 103 | 290 |
| Arkansas River at Salida (1) | 320 | 102 | 313 |
| Cucharas River near La Veta | 10 | 100 | 10 |
| Huerfano River near Redwing | 14 | 93 | 15 |
| Purgatoire River at Trinidad | 34 | 89 | 38 |

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Bush Ivanhoe, Boustead, Divide, Twin Lakes and Homestake Tunnels and Ewing, Front Pass, Wurtz and Columbine ditches.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--------------------|---------------|-------------|
| | Spring Season | Late Season |
| Apishapa River | Avg. | Avg. |
| Fountain Creek | Avg. | Avg. |
| Grape Creek | Avg. | Avg. |
| Hardscrabble Creek | Avg. | Avg. |
| Monument Creek | Avg. | Avg. |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Arkansas | 10 | 69 | 97 |
| Cucharas | 1 | 57 | 104 |
| Purgatoire | 1 | 58 | 94 |

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|--------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average * |
| Adobe | 62 | 0 | 0 | 17 |
| Clear Creek | 11 | 4 | 2 | 8 |
| Cucharas | 40 | NA | 0 | 3 |
| Great Plains | 150 | 0 | 0 | 61 |
| Horse Creek | 27 | 8 | 0 | 7 |
| John Martin | 354 | 10 | 8 | 91 |
| Meredith | 42 | 0 | 0 | 14 |
| Model | 15 | 0 | 0 | 4 |
| Turquoise | 121 | 45 | 38 | -- |
| Twin Lakes | 58 | 17 | 16 | 26 |

NA—Not Available

* 1958-1972 period.

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

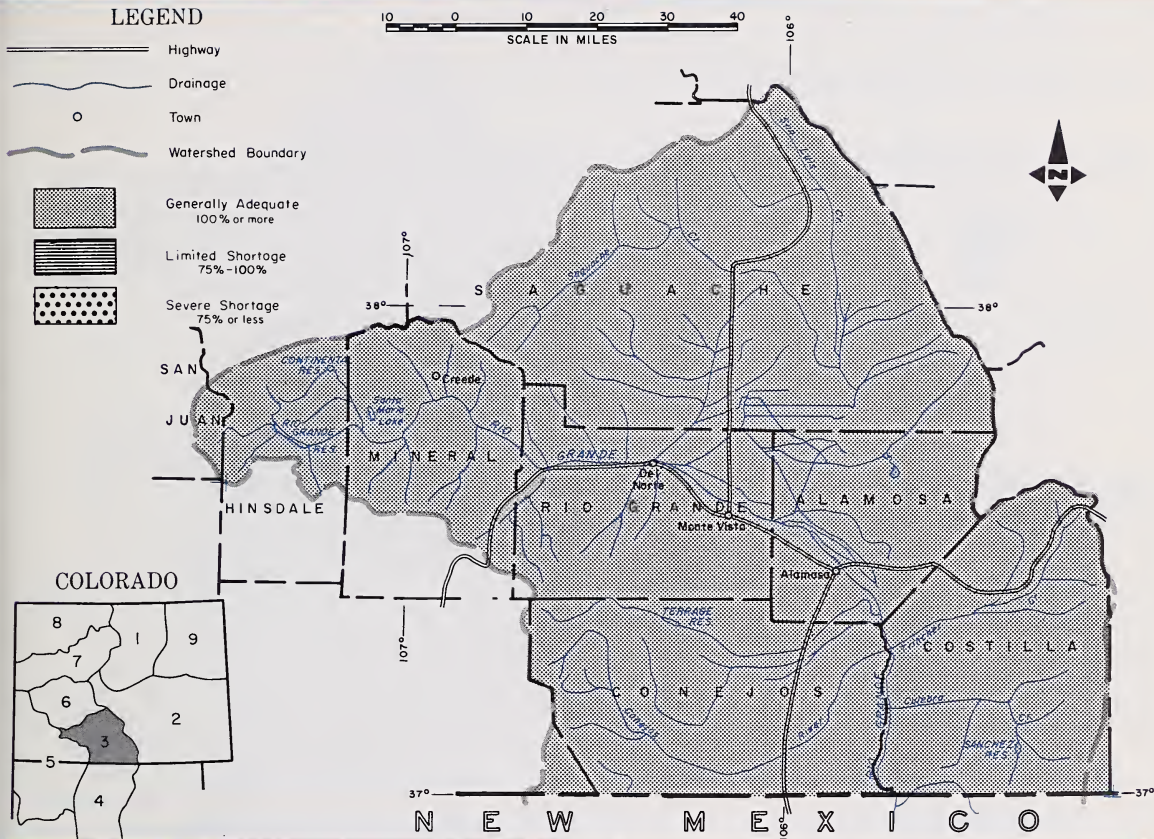
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U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO

LEGEND

- Highway
- Drainage
- Town
- Watershed Boundary
- Generally Adequate
100% or more
- Limited Shortage
75%-100%
- Severe Shortage
75% or less

10 0 10 20 30 40
SCALE IN MILES



YOUR WATER SUPPLY

THE SNOWFALL REMAINED ABOVE NORMAL DURING MARCH. FORECASTS ON THE RIO GRANDE STREAMS ARE ABOVE NORMAL EXCEPT ON THE EASTERN SIDE OF THE BASIN WHERE CULEBRA CREEK IS ONLY EXPECTED TO FLOW 90%. THIS SHOULD PROVIDE ADEQUATE WATER FOR ALL USERS. CARRYOVER STORAGE IS 124% OF NORMAL AND WILL PROVIDE A GOOD SUPPLEMENT. MORE SNOW COULD ACCUMULATE AT THE HIGHER LEVELS DURING APRIL.

This report prepared by

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U.S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORE-CAST | % of Average | * Average |
|--|-----------|--------------|-----------|
| Alamosa Creek above Terrace Reservoir | 72 | 116 | 62 |
| Conejos River near Mogote (1) | 200 | 109 | 184 |
| Culebra Creek at San Luis (2) | 15 | 88 | 17 |
| Rio Grande at 30 Mile Bridge (3) | 130 | 107 | 121 |
| Rio Grande near Del Norte (3) | 525 | 112 | 468 |
| South Fork of Rio Grande at South Fork | 135 | 117 | 115 |

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|----------------------|---------------|-------------|
| | Spring Season | Late Season |
| Saguache Creek | Avg. | Avg. |
| Sangre de Cristo Cr. | Avg. | Avg. |
| Trinchera Creek | Avg. | Avg. |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|------------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average * |
| Continental | 27 | 5 | 3 | 6 |
| Platoro | 60 | 14 | 19 | 9 |
| Rio Grande | 46 | 18 | 9 | 18 |
| Sanchez | 103 | NA | 7 | 14 |
| Santa Maria | 45 | 10 | 4 | 7 |
| Terrace | 18 | 10 | 5 | 6 |
| NA-Not Available | | | | |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Alamosa | 2 | 83 | 126 |
| Conejos | 3 | 76 | 110 |
| Culebra | 2 | 59 | 79 |
| Rio Grande | 10 | 76 | 121 |

* 1958-1972 period.

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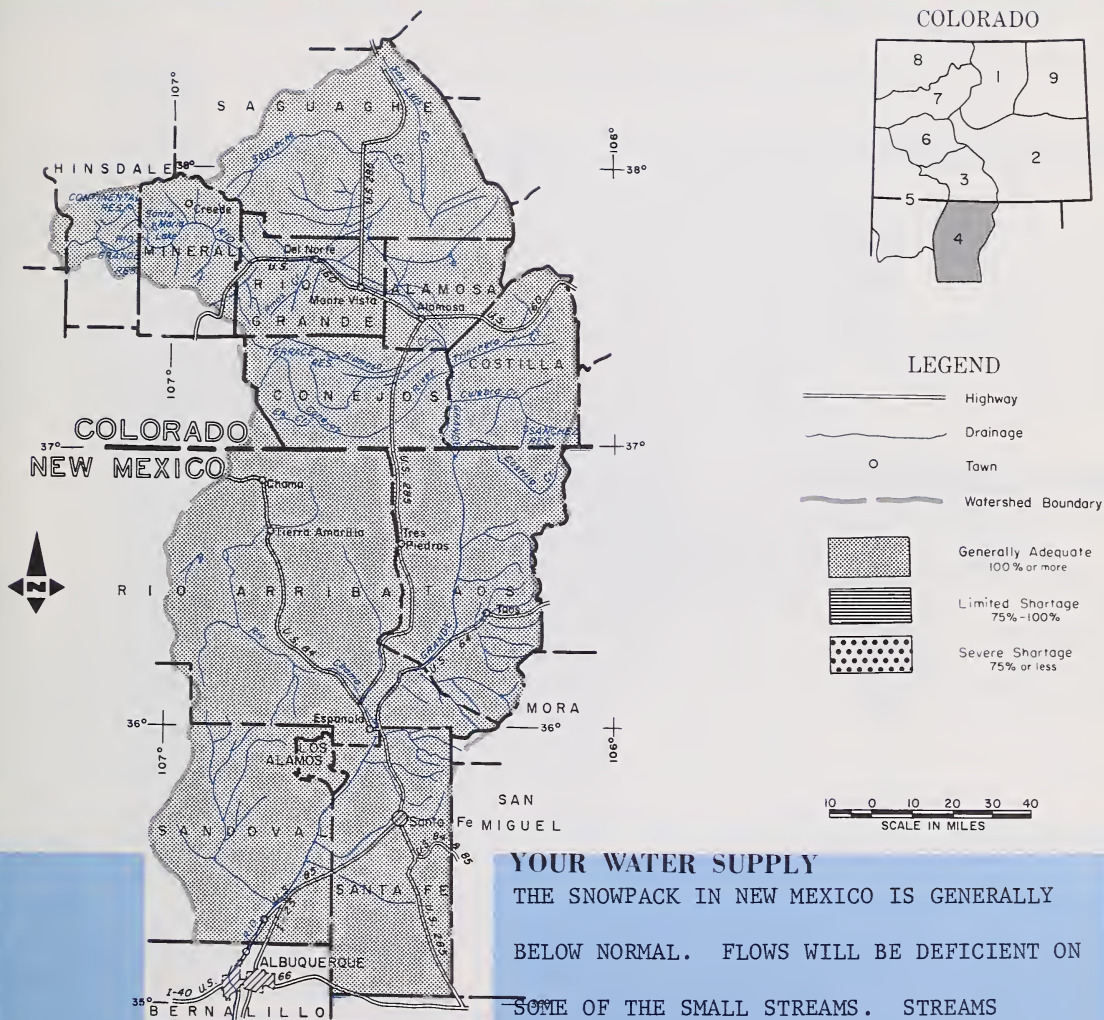


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of
APRIL 1, 1976

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY
THE SNOWPACK IN NEW MEXICO IS GENERALLY
BELOW NORMAL. FLOWS WILL BE DEFICIENT ON
SOME OF THE SMALL STREAMS. STREAMS
ORIGINATING IN COLORADO ARE EXPECTED TO FLOW BETTER THAN NORMAL DUE TO THE
GOOD SNOWPACK. CARRYOVER STORAGE IS GOOD. THE SNOW SEASON IS CONSIDERED TO
BE OVER IN NEW MEXICO HOWEVER SOME HIGH ELEVATION ACCUMULATION COULD OCCUR.

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SANTA FE, NEW MEXICO
U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

| FORECAST POINT | FORECAST | % of Average | Average * |
|--------------------------------|----------|--------------|-----------|
| Costilla Creek at Costilla (1) | 15 | 80 | 19 |
| Jemez River near Jemez | 22 | 76 | 29 |
| Pecos River at Pecos | 35 | 85 | 41 |
| Red River at Mouth near Questa | 25 | 86 | 29 |
| Rio Chama at El Vado | 200 | 105 | 190 |
| Rio Grande at Otowi (2) | 600 | 114 | 526 |
| Rio Grande at San Marcial (2) | 425 | 120 | 355 |
| Rio Hondo near Valdez | 12 | 86 | 14 |
| Santa Cruz River at Cundiyo | 10 | 77 | 13 |

(1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--------------------|---------------|-------------|
| | Spring Season | Late Season |
| Embudo Creek | Fair | Fair |
| Mora River | Fair | Fair |
| Nambe Creek | Fair | Fair |
| Rio Ojo Caliente | Fair | Fair |
| Rio Pueblo de Taos | Fair | Fair |
| Santa Fe Creek | Fair | Fair |

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|----------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average * |
| Alamogordo | 111 | 2 | 48 | 63 |
| Avalon | 5 | 5 | 1 | -- |
| Caballo | 344 | 44 | 42 | 65 |
| Conchas | 273 | 83 | 132 | 184 |
| El Vado | 195 | 130 | 95 | 6 |
| Elephant Butte | 2195 | 651 | 445 | 394 |
| McMillan | 34 | 16 | 29 | -- |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Pecos | 1 | 7 | 15 |
| Red River | 2 | 86 | 144 |
| Rio Chama | 5 | 39 | 79 |
| Rio Grande, NM | 11 | 47 | 80 |
| Rio Hondo | — | — | — |

* 1958-1972 period.

Return if not delivered
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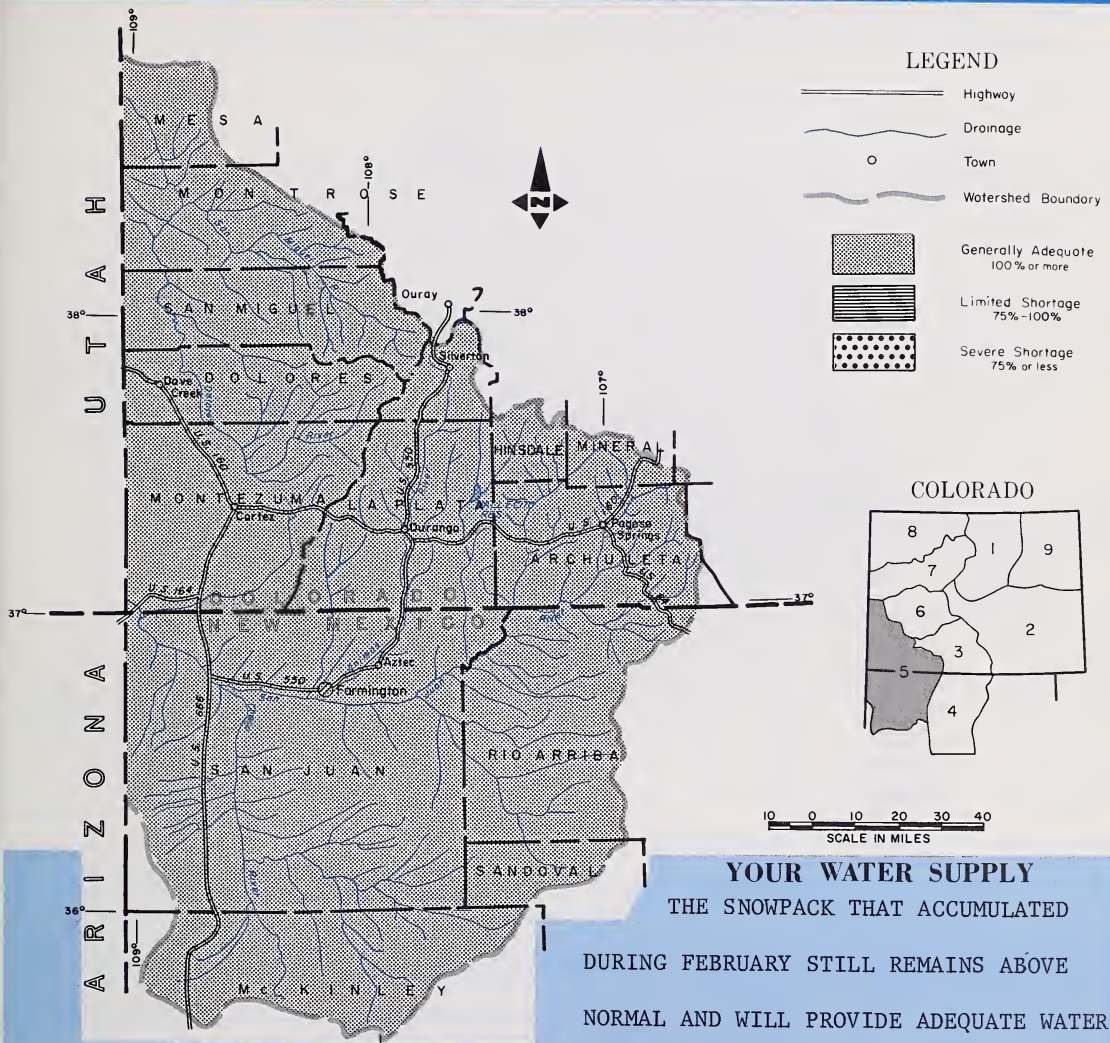


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of
APRIL 1, 1976

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



SUPPLIES THIS SUMMER. ALL FORECASTS IN THE BASIN ARE HIGHER THAN THE 1958-72 NORMAL. CARRYOVER STORAGE IS 118% OF NORMAL AND SHOULD BE A GOOD SUPPLEMENTAL SUPPLY. VALLEY SOIL MOISTURE IS REPORTED AS FAIR TO GOOD.

This report prepared by

JACK N. WASHICHEK—BERNARD A. SHAFER
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE
DENVER, COLORADO

Issued by

M. D. BURDICK—STATE CONSERVATIONIST
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U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

O. W. GILLASPIE—AREA CONSERVATIONIST
ALAMOSA, COLORADO

JAMES E. TATUM—AREA CONSERVATIONIST
SANTA FE, NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORE-CAST | % of Average | Average * |
|---------------------------------|-----------|--------------|-----------|
| Animas River at Durango | 450 | 111 | 423 |
| Dolores River at Dolores | 255 | 116 | 232 |
| La Plata River at Hesperus | 24 | 121 | 24 |
| Los Pinos River at Bayfield (1) | 210 | 114 | 198 |
| Mancos River near Towac | 16 | 114 | 14 |
| Inflow to Navajo River (1 & 2) | 680 | 120 | 597 |
| Piedra Creek at Arboles | 215 | 119 | 185 |
| San Juan River at Carracas | 400 | 113 | 354 |
| San Miguel River at Placerville | 140 | 108 | 130 |

(1) Observed flow plus change in storage in Vallecito Reservoir. (2) April - July

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--------------------|---------------|-------------|
| | Spring Season | Late Season |
| Florida River | Exc. | Avg. |
| Hermosa Creek | Exc. | Avg. |
| West Dolores River | Exc. | Avg. |
| Williams Creek | Exc. | Avg. |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|---------------|-----------------|----------------|-----------|----------|
| | | This Year | Last Year | Average* |
| Groundhog | 22 | 9 | 8 | 10 |
| Jackson Gulch | 10 | 6 | 3 | 5 |
| Lemon | 40 | 20 | 5 | 20 |
| Navajo | 1696 | 1063 | 974 | 887 |
| Vallecito | 126 | 60 | 30 | 57 |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Animas | 6 | 74 | 117 |
| Dolores | 4 | 61 | 104 |
| San Juan | 5 | 73 | 118 |

* 1958-1972 period.

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1976

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

SUMMER FLOW OF THE GUNNISON RIVER AND ITS TRIBUTARIES SHOULD BE ABOVE NORMAL. THIS SHOULD PROVIDE ADEQUATE WATER TO ALL USERS. CARRYOVER STORAGE IS 120% OF NORMAL. BLUE MESA NOW CONTAINS 425,000 ACRE FEET. SOILS IN THE IRRIGATED AREA ARE REPORTED TO BE IN FAIR CONDITION.

This report prepared by

JACK N. WASHICHEK—BERNARD A. SHAFER
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DENVER, COLORADO

Issued by

M. D. BURDICK—STATE CONSERVATIONIST
DENVER, COLORADO
DUANE L. JOHNSON—AREA CONSERVATIONIST
GRAND JUNCTION, COLORADO
U.S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORE-CAST | % of Average | Average * |
|--|-----------|--------------|-----------|
| Gunnison River inflow to Blue Mesa Reservoir (1) | 840 | 106 | 793 |
| Gunnison River near Grand Junction (2) | 1250 | 106 | 1184 |
| North Fork of Gunnison (3) | 280 | 106 | 263 |
| Surface Creek near Cedaredge | 15 | 94 | 16 |
| Uncompahgre River at Colona | 140 | 104 | 134 |

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs.
 (3) Observed flow plus change in storage in Paonia Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|----------------|---------------|-------------|
| | Spring Season | Late Season |
| Ohio Creek | Avg. | Fair |
| Slate River | Avg. | Fair |
| Taylor River | Avg. | Fair |
| Tomichi Creek | Avg. | Fair |

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|--------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average * |
| Blue Mesa | 830 | 425 | 336 | 315 |
| Morrow Point | 121 | 115 | 115 | 114 |
| Taylor | 106 | 60 | 50 | 65 |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Gunnison | 12 | 72 | 95 |
| Surface Creek | 3 | 74 | 92 |
| Uncompahgre | 3 | 70 | 114 |

* 1958-1972 period.

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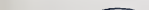

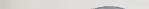
FIRST CLASS MAIL




WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO

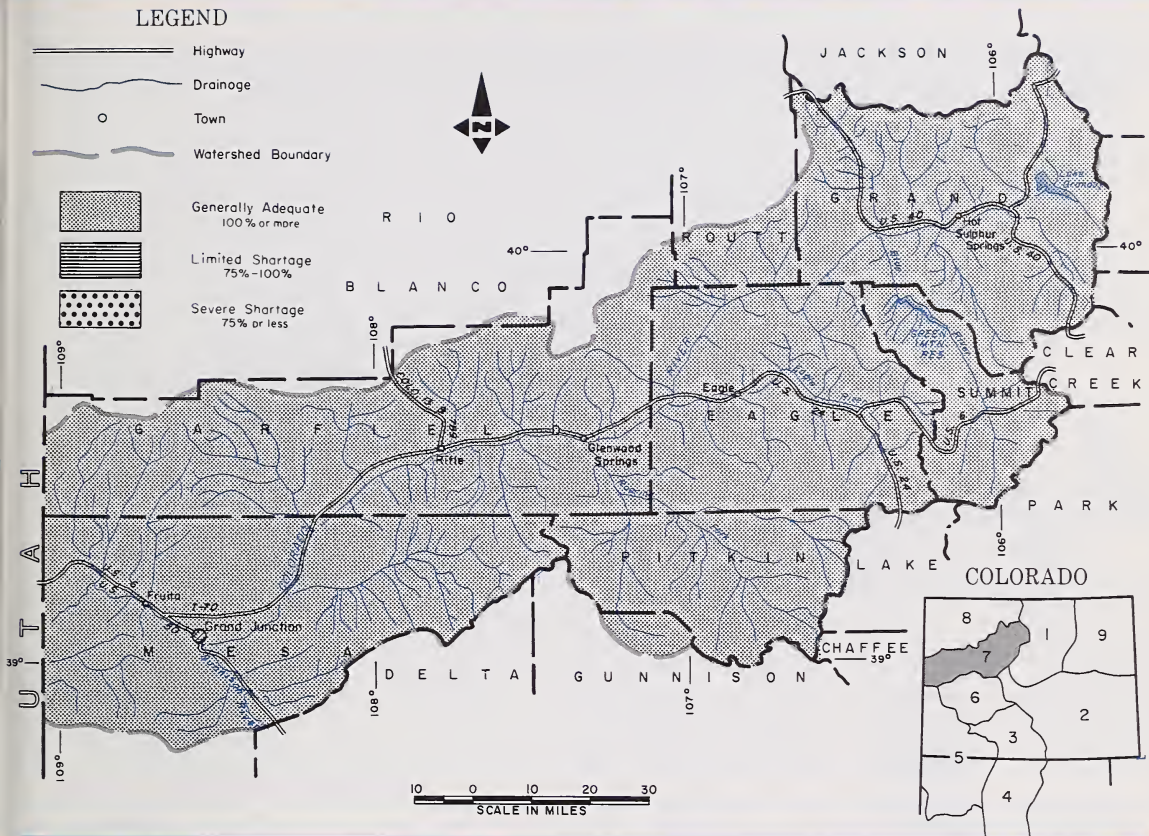
as of
APRIL 1, 1976

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO

LEGEND

-  Highway
-  Drainage
-  Town
-  Watershed Boundary

-  Generally Adequate
100% or more
-  Limited Shortage
75%-100%
-  Severe Shortage
75% or less



YOUR WATER SUPPLY

THE COLORADO RIVER SNOWPACK REMAINED ABOUT NORMAL DURING MARCH. NEAR NORMAL STREAMFLOWS SHOULD RESULT. FORECASTS ARE MADE ASSUMING NORMAL PRECIPITATION FOR THE REMAINDER OF THE YEAR. AT LEAST A MONTH OF POSSIBLE SNOW BUILD-UP REMAINS. CARRYOVER STORAGE IS SLIGHTLY ABOVE NORMAL.

This report prepared by

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DENVER, COLORADO

Issued by

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DENVER, COLORADO
DUANE L. JOHNSON—AREA CONSERVATIONIST
GRAND JUNCTION, COLORADO
U.S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORECAST | % of Average | Average * |
|---|----------|--------------|-----------|
| Blue River inflow to Dillon Reservoir | 135 | 80 | 169 |
| Blue River inflow to Green Mountain Reservoir (1) | 280 | 94 | 297 |
| Colorado River near Cameo (6) | 2350 | 99 | 2370 |
| Colorado River near Dotsero (3) | 1400 | 98 | 1434 |
| Colorado River inflow to Granby Reservoir (2) | 220 | 96 | 228 |
| Roaring Fork at Glenwood Springs (4) | 715 | 100 | 713 |
| Williams Fork near Parshall (5) | 55 | 87 | 63 |
| Willow Creek inflow to Willow Creek Reservoir | 47 | 100 | 47 |

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (4).

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|----------------|---------------|-------------|
| | Spring Season | Late Season |
| Brush | Avg. | Avg. |
| Eagle River | Avg. | Avg. |
| Gypsum Creek | Avg. | Avg. |

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|----------------|-----------------|----------------|-----------|----------|
| | | This Year | Last Year | Average* |
| Dillon | 254 | 225 | 209 | 231 |
| Granby | 466 | 279 | 288 | 213 |
| Green Mountain | 139 | 58 | 62 | 54 |
| Homestake | 43 | 0 | 33 | 15 |
| Ruedi | 101 | 55 | 54 | 59 |
| Vega | 32 | 12 | 6 | 12 |
| Williams Fork | 97 | 42 | 34 | 25 |
| Willow Creek | 9 | 6 | 7 | 6 |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Blue River | 8 | 76 | 92 |
| Colorado | 20 | 84 | 94 |
| Plateau | 3 | 76 | 93 |
| Roaring Fork | 7 | 76 | 103 |
| Williams Fork | 3 | 83 | 93 |
| Willow | 2 | 88 | 97 |

* 1958-1972 period.

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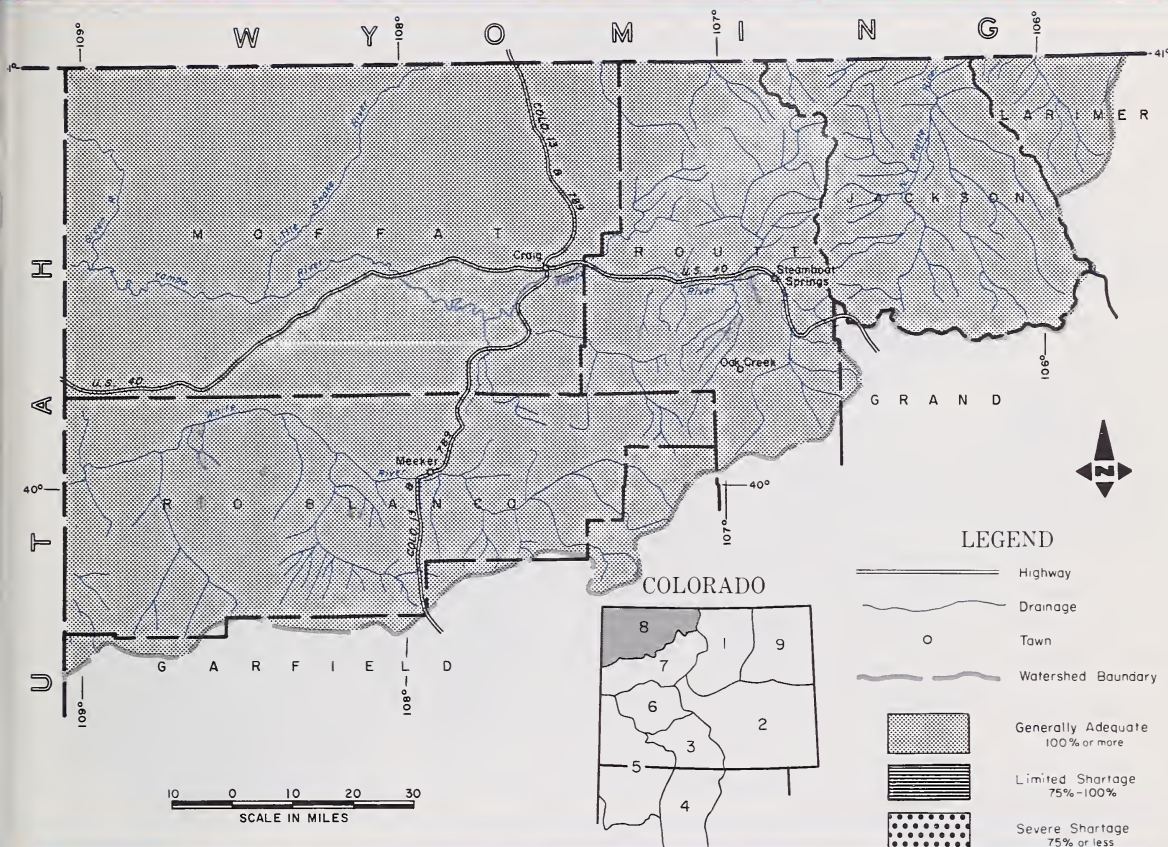
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of
APRIL 1, 1976

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THE SNOWPACK IN NORTH CENTRAL AND NORTHWESTERN COLORADO IS JUST SLIGHTLY BELOW NORMAL. SUMMER FLOWS SHOULD STILL PROVIDE ADEQUATE WATER TO MOST USERS. EARLY SEASON FLOW SHOULD BE AT LEAST AVERAGE. SOIL MOISTURE CONDITIONS IN THE IRRIGATED AREAS ARE REPORTED AS FAIR. FORECASTS ARE BASED ON NORMAL CLIMATIC CONDITIONS FOR THE REMAINDER OF THE YEAR. AT LEAST ONE MORE MONTH REMAINS WHEN SNOW COULD ACCUMULATE AT HIGH ELEVATIONS.

This report prepared by

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Issued by

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GRAND JUNCTION, COLORADO
U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORECAST | % of Average | Average * |
|----------------------------------|----------|--------------|-----------|
| Elk River at Clark | 180 | 91 | 198 |
| Laramie River near Woods | 127 | 100 | 127 |
| Little Snake River at Lily | 300 | 93 | 324 |
| North Platte River at Northgate | 216 | 90 | 240 |
| White River near Meeker | 285 | 97 | 295 |
| Yampa River near Maybell | 790 | 87 | 905 |
| Yampa River at Steamboat Springs | 230 | 84 | 274 |

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|----------------|---------------|-------------|
| | Spring Season | Late Season |
| Canadian River | Avg. | Avg. |
| Hunt Creek | Avg. | Avg. |
| Illinois River | Avg. | Avg. |
| Michigan River | Avg. | Avg. |
| Oak Creek | Avg. | Avg. |
| Trout Creek | Avg. | Avg. |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average * |
| Elk | 2 | 72 | 89 |
| Laramie | 3 | 112 | 105 |
| North Platte | 5 | 89 | 101 |
| White | 2 | 82 | 100 |
| Yampa | 6 | 72 | 87 |

* 1958-1972 period.

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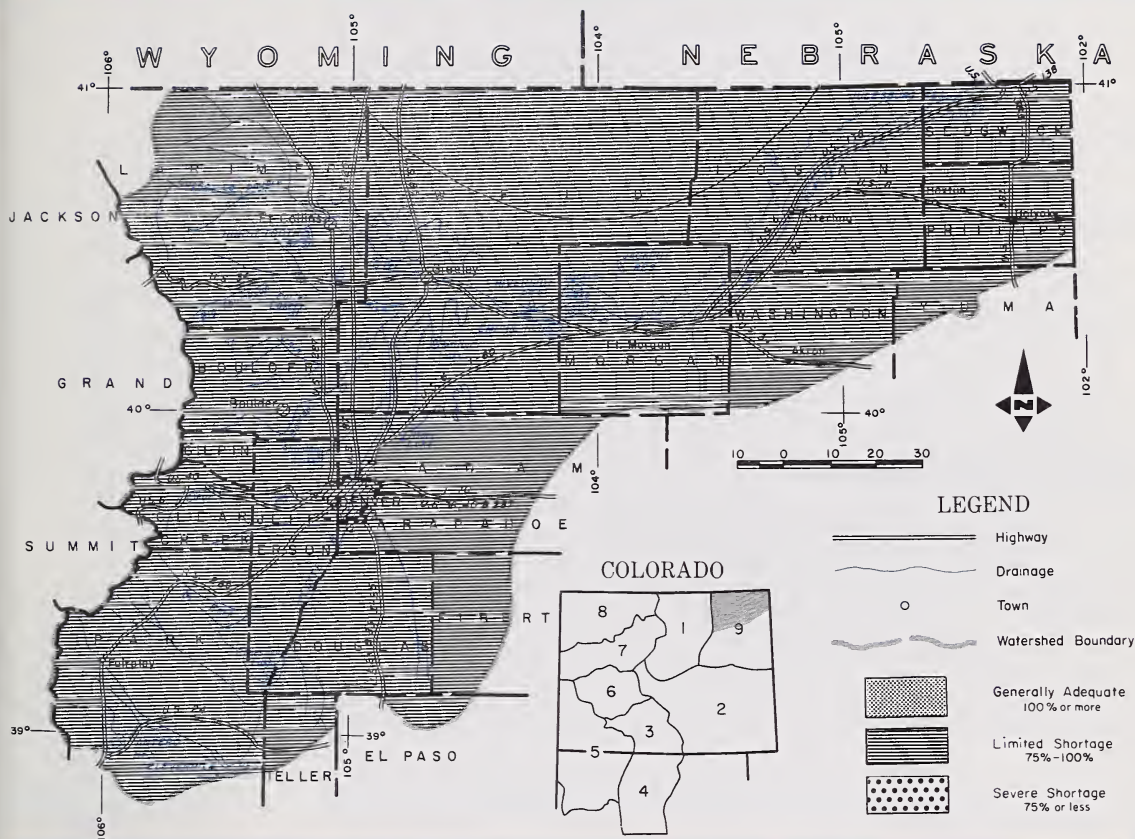


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1976

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

SNOWFALL WAS LIGHT DURING MARCH OVER ALL OF THE SOUTH PLATTE BASIN.

FORECASTS WERE DROPPED BELOW NORMAL ON THE MAINSTEM AND ALL THE NORTHERN TRIBUTARIES. EXPECTED STREAMFLOW RANGES BETWEEN 70% AND 97% OF THE 15-YEAR NORMAL. EARLY FLOWS SHOULD BE ABOUT NORMAL, BUT LATE SEASON FLOWS WILL BE LOW, ESPECIALLY BELOW GREELEY. CARRYOVER RESERVOIR STORAGE IS NORMAL.

This report prepared by

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Issued by

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

| FORECAST POINT | FORE-CAST | % of Average | Average* |
|---|-----------|--------------|----------|
| Big Thompson River at Drake (1) | 92 | 86 | 107 |
| Boulder Creek at Orodell | 36 | 73 | 49 |
| Cache La Poudre River at Canyon Mouth (2) | 240 | 97 | 247 |
| Clear Creek at Golden (3) | 89 | 70 | 127 |
| Saint Vrain Creek at Lyons (4) | 60 | 80 | 75 |

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---------------|-------------|
| | Spring Season | Late Season |
| South Platte from Greeley to Fort Morgan | Fair | Poor |
| South Platte from Fort Morgan to Sterling | Fair | Poor |
| South Platte below Sterling | Fair | Poor |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------|
| | | Last Year | Average* |
| Big Thompson | 5 | 86 | 91 |
| Boulder | 3 | 78 | 82 |
| Cache La Poudre | 7 | 99 | 104 |
| Clear Creek | 6 | 69 | 81 |
| Saint Vrain | 3 | 75 | 82 |
| South Platte | 3 | 70 | 95 |

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|----------------|-----------------|----------------|-----------|----------|
| | | This Year | Last Year | Average* |
| Carter | 109 | 102 | 107 | 95 |
| Cheesman | 79 | 47 | 44 | 59 |
| Eleven Mile | 98 | 97 | 97 | 88 |
| Empire | 38 | 32 | 32 | 33 |
| Horsetooth | 144 | 121 | 103 | 111 |
| Jackson | 35 | 32 | 32 | 34 |
| Julesburg | 28 | 23 | 23 | 22 |
| Point of Rocks | 70 | 69 | 71 | 66 |
| Prewitt | 33 | 27 | 27 | 23 |
| Riverside | 58 | 58 | 52 | 58 |

* 1958-1972 period.

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"The Conservation of Water begins with the Snow Survey"

APPENDIX I

SNOW COURSE MEASUREMENTS as of APRIL 1, 1976

| SNOW COURSE | CURRENT INFORMATION | | | PAST RECORD | |
|---------------------------|---------------------|---------------------|------------------------|------------------------|------------|
| | DATE OF SURVEY | SNOW DEPTH (INCHES) | WATER CONTENT (INCHES) | WATER CONTENT (INCHES) | |
| | | | | LAST YEAR | AVG. 58-72 |
| NORTH PLATTE BASIN | | | | | |
| <u>Laramie River</u> | | | | | |
| Deadman Hill | 3/31 | 49 | 15.3 | 14.2 | 16.8 |
| McIntyre | 3/28 | 40 | 11.3 | 11.1 | 10.8 |
| Roach | 3/28 | 67 | 21.5 | 17.8 | 18.2 |
| <u>North Platte River</u> | | | | | |
| Cameron Pass | 3/29 | 84 | 33.8 | 31.9 | 28.7 |
| Columbine Lodge | 3/25 | 58 | 20.3 | 29.5 | 24.0 |
| Northgate | 3/29 | 22 | 5.6 | 5.8 | 6.5 |
| Park View | 3/30 | 34 | 9.7 | 10.7 | 9.2 |
| Willow Cr. Pass (B) | 3/30 | 41 | 12.2 | 14.0 | 12.7 |
| SOUTH PLATTE BASIN | | | | | |
| <u>Boulder Creek</u> | | | | | |
| Baltimore | 3/29 | 21 | 5.6 | 7.7 | 6.8 |
| Boulder Falls | 3/29 | 46 | 11.8 | 14.0 | 13.4 |
| University Camp | 3/29 | 58 | 15.0 | 20.0 | 19.3 |
| <u>Big Thompson River</u> | | | | | |
| Deer Ridge | 3/29 | 20 | 4.6 | 5.2 | 4.8 |
| Hidden Valley | 3/30 | 38 | 10.9 | 10.1 | 10.5 |
| Lake Irene (B) | 3/28 | 59 | 19.5 | 21.6 | 20.9 |
| Long's Peak | 3/29 | 39 | 8.9 | 13.5 | 10.9 |
| Two Mile | 3/30 | 46 | 12.8 | 15.3 | 15.1 |
| <u>Cache La Poudre</u> | | | | | |
| Bennett Creek | 3/30 | 28 | 6.7 | 6.4 | --- |
| Big South | 3/29 | 3 | 0.6 | 2.6 | 2.1 |
| Cameron Pass | 3/29 | 84 | 33.8 | 31.9 | 28.7 |
| Chambers Lake | 3/29 | 29 | 9.9 | 12.1 | 9.6 |
| Deadman Hill | 3/31 | 49 | 15.3 | 14.2 | 16.8 |
| Hourglass Lake | 3/30 | 27 | 7.6 | 6.6 | 6.7 |
| Joe Wright | 3/29 | 72 | 23.4 | 26.6 | --- |
| Lost Lake | 3/29 | 40 | 11.9 | 12.9 | 11.8 |
| Red Feather | 3/31 | 24 | 7.0 | 6.3 | 6.9 |
| <u>Clear Creek</u> | | | | | |
| Baltimore (B) | 3/29 | 21 | 5.6 | 7.7 | 6.8 |
| Berthoud Falls | 3/29 | 38 | 10.4 | 17.4 | 13.6 |
| Empire | 3/29 | 25 | 6.4 | 10.4 | 7.8 |
| Grizzly Peak (B) | 3/26 | 51 | 15.3 | 22.3 | 18.9 |
| Loveland Lift | 3/26 | 50 | 15.1 | 20.8 | 21.1 |
| Loveland Pass | 3/26 | 45 | 15.1 | 19.6 | 15.7 |
| <u>St. Vrain River</u> | | | | | |
| Copeland Lake | 3/29 | 16 | 3.3 | 6.3 | 4.4 |
| Ward | 3/30 | 27 | 5.1 | 5.9 | 6.5 |
| Wild Basin | 3/29 | 37 | 9.8 | 12.2 | 11.2 |
| <u>South Platte River</u> | | | | | |
| Como | 3/30 | 27 | 6.6 | 8.9 | --- |
| Geneva Park | 3/27 | 16 | 3.6 | 5.0 | 3.8 |
| Horseshoe Mt. | 3/29 | 38 | 9.6 | 16.2 | --- |
| Hoosier Pass | 3/31 | 42 | 11.7 | 17.5 | 12.9 |
| Jefferson Creek | 3/30 | 35 | 9.4 | 12.9 | 9.2 |
| Mosquito | 3/30 | 31 | 8.4 | 14.2 | --- |
| Trout Creek Pass | 3/29 | 22 | 4.7 | 6.7 | --- |
| ARKANSAS BASIN | | | | | |
| <u>Arkansas River</u> | | | | | |
| Bigelow Divide | 3/29 | 33 | 8.2 | 9.5 | 6.5 |
| Cooper Hill (B) | 4/02 | 41 | 11.1 | 14.4 | 11.3 |
| East Fork | 3/30 | 34 | 9.7 | 12.3 | 9.8 |
| Four Mile Park | 3/30 | 26 | 6.9 | 10.4 | 5.1 |
| Fremont Pass | 3/30 | 56 | 16.9 | 18.2 | 16.2 |
| Garfield | 3/31 | 33 | 10.8 | 19.9 | 13.0 |
| Hermit Lake | 3/30 | 37 | 7.8 | 16.1 | --- |
| Monarch Pass | 3/31 | 44 | 12.9 | 24.4 | 17.1 |
| Tennessee Pass | 3/30 | 38 | 10.8 | 13.5 | 10.6 |
| Twin Lakes Tunnel | 3/26 | 36 | 10.0 | 14.8 | 10.7 |
| Westcliffe | 3/30 | 28 | 6.4 | 13.2 | 6.3 |

| SNOW COURSE | CURRENT INFORMATION | | | PAST RECORD | |
|------------------------------|---------------------|---------------------|------------------------|------------------------|------------|
| | DATE OF SURVEY | SNOW DEPTH (INCHES) | WATER CONTENT (INCHES) | WATER CONTENT (INCHES) | |
| | | | | LAST YEAR | AVG. 58-72 |
| <u>Cucharas River</u> | | | | | |
| Apishapa | 3/30 | 26 | 8.4 | 10.6 | --- |
| Cucharas Creek | 3/30 | 42 | 10.0 | 12.9 | --- |
| La Veta Pass (B) | 3/30 | 36 | 7.7 | 13.4 | 7.4 |
| <u>Purgatoire River</u> | | | | | |
| Bourbon | 3/30 | 34 | 6.6 | 11.3 | 7.0 |
| RIO GRANDE BASIN-COLO | | | | | |
| <u>Alamosa River</u> | | | | | |
| Silver Lakes | 4/01 | 21 | 6.7 | 10.3 | 5.3 |
| Summitville | 3/29 | 76 | 23.4 | 25.8 | 18.6 |
| <u>Conejos River</u> | | | | | |
| Cumbres | 3/26 | 52 | 18.5 | 24.5 | 18.0 |
| La Manga | 3/26 | 63 | 21.0 | 27.6 | --- |
| Platoro | 3/30 | 64 | 20.3 | 22.4 | 16.3 |
| River Springs | 3/30 | 12 | 3.8 | 9.4 | 4.6 |
| <u>Culebra River</u> | | | | | |
| Brown Cabin | 3/31 | 5 | 1.6 | 12.2 | --- |
| Cottonwood (B) | NS | --- | --- | --- | --- |
| Culebra | 3/30 | 38 | 7.7 | 12.6 | 8.4 |
| La Veta Pass (B) | 3/30 | 36 | 7.7 | 13.4 | 7.4 |
| Trinchera (B) | 3/31 | 32 | 7.7 | 10.5 | --- |
| <u>Rio Grande</u> | | | | | |
| Cochetopa Pass | 3/29 | 23 | 5.0 | 9.6 | 5.9 |
| Grayback | 3/29 | 64 | 20.0 | 21.7 | --- |
| Hiway | 3/29 | 93 | 29.6 | 34.7 | 23.8 |
| Lake Humphrey | 3/31 | 29 | 9.5 | 10.8 | 6.1 |
| Love Lake | 3/30 | 38 | 12.1 | 14.3 | --- |
| Pass Creek | 3/29 | 50 | 15.9 | 18.2 | 9.8 |
| Pool Table | 3/30 | 25 | 5.8 | 6.4 | 6.1 |
| Porcupine | 3/29 | 36 | 10.4 | 16.7 | 10.5 |
| Santa Maria | 3/30 | 13 | 3.2 | 10.6 | 3.6 |
| Upper Rio Grande | 3/30 | 29 | 8.7 | 14.2 | 7.5 |
| Wolf Creek Pass | 3/29 | 96 | 33.2 | 39.4 | 25.5 |
| Wolf Cr. Summit (B) | 3/20 | 102 | 32.0 | 41.6 | 28.3 |
| RIO GRANDE BASIN-NM | | | | | |
| <u>Pecos River</u> | | | | | |
| Panchuela | 3/29 | 2 | 0.3 | 4.1 | 2.0 |
| <u>Rio Chama</u> | | | | | |
| Bateman | 3/25 | 34 | 11.4 | 17.1 | 11.7 |
| Capulin | 3/26 | 1 | 0.5 | 7.2 | 2.7 |
| Capulin Peak | 3/26 | 4 | 1.2 | 7.5 | 3.4 |
| Chama Divide | 3/26 | 0 | 0.0 | 6.7 | 1.7 |
| Chamita | 3/24 | 26 | 8.2 | 16.4 | 7.2 |
| <u>Rio Grande</u> | | | | | |
| Alamitos | 3/26 | 10 | 3.9 | 10.4 | --- |
| Big Tesuque | 3/30 | 12 | 2.8 | 8.8 | 4.6 |
| Cordova | 3/26 | 34 | 8.9 | 11.5 | 10.1 |
| Elk Cabin | 3/29 | 5 | 1.1 | 3.5 | 2.5 |
| Hopewell | 3/23 | 53 | 19.7 | 20.5 | --- |
| La Cueva | 3/29 | 6 | 1.8 | 10.7 | --- |
| Pajarito | 3/30 | 0 | 0.0 | 0.2 | 0.0 |
| Pajarito Peak | 3/30 | 0 | 0.0 | 2.1 | 0.3 |
| Palo | 3/30 | 27 | 8.0 | 9.7 | --- |
| Payrole | 3/29 | 19 | 6.0 | 13.6 | 6.8 |
| Quemazon | 3/31 | 21 | 5.7 | 14.4 | 9.0 |
| Rio En Medio | 3/30 | 27 | 6.8 | 12.4 | 7.4 |
| Sandoval | 3/31 | 8 | 2.1 | 8.6 | 4.2 |
| Senorita Divide | 3/30 | 4 | 1.1 | 12.9 | --- |
| Taos Canyon | 3/30 | 18 | 4.9 | 7.4 | 3.9 |
| Tres Ritos | 3/26 | 14 | 4.6 | 8.0 | 4.8 |
| <u>Rio Hondo</u> | | | | | |
| Taos Powderhorn | 3/31 | 79 | 29.7 | 32.1 | --- |
| <u>Red River</u> | | | | | |
| Hematite Park (B) | 3/29 | 19 | 4.3 | 6.1 | 3.5 |
| Red River | 3/29 | 29 | 8.8 | 9.2 | 5.6 |
| Red River #2 | 3/30 | 26 | 8.0 | 9.1 | --- |

NOTE: NS - No Survey
(B) - On Adjacent Drainage

APPENDIX I

SNOW COURSE MEASUREMENTS as of APRIL 1, 1976

| SNOW COURSE | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------|---------------------|---------------------|------------------------|------------------------|-----------|
| | DATE OF SURVEY | SNOW DEPTH (INCHES) | WATER CONTENT (INCHES) | WATER CONTENT (INCHES) | |
| | | | | LAST YEAR | AVG 58-72 |
| SAN JUAN-DOLORES BASIN | | | | | |
| <u>Animas River</u> | | | | | |
| Cascade | 3/30 | 40 | 15.1 | 19.5 | 10.2 |
| Lemon #2 | 3/31 | 24 | 8.7 | 19.4 | --- |
| Mineral Creek | 3/30 | 46 | 15.8 | 24.6 | 15.4 |
| Molas Lake | 3/30 | 40 | 14.6 | 20.0 | 12.6 |
| Purgatory | 3/30 | 62 | 23.6 | 31.1 | --- |
| Red Mt. Pass (B) | 3/30 | 87 | 32.8 | 41.5 | 31.5 |
| Silverton Sub-Sta. | 3/30 | 25 | 9.8 | 13.5 | 5.2 |
| Spud Mountain | 3/30 | 65 | 26.9 | 36.1 | 23.1 |
| <u>Dolores River</u> | | | | | |
| Lizard Head | 3/29 | 51 | 17.8 | 25.8 | 17.2 |
| Lone Cone | 3/30 | 56 | 20.6 | 22.1 | --- |
| Ophir Loop | 3/29 | 46 | 12.0 | --- | --- |
| Rico | 3/29 | 15 | 4.6 | 12.2 | 6.1 |
| Telluride | 3/29 | 25 | 8.0 | 13.5 | 6.5 |
| Trout Lake | 3/29 | 44 | 14.7 | 22.6 | 13.7 |
| <u>San Juan River</u> | | | | | |
| Chama Divide (B) | 3/26 | 0 | 0.0 | 6.7 | 1.7 |
| Chamita (B) | 3/24 | 26 | 8.2 | 16.4 | 7.2 |
| Upper San Juan | 3/29 | 98 | 34.2 | 43.5 | 28.6 |
| Wolf Cr. Pass (B) | 3/29 | 96 | 33.2 | 39.4 | 25.5 |
| Wolf Cr. Summit | 3/29 | 102 | 32.0 | 41.6 | 28.3 |
| GUNNISON BASIN | | | | | |
| <u>Gunnison River</u> | | | | | |
| Alexander Lake | 3/30 | 58 | 21.1 | 26.5 | 22.8 |
| Blue Mesa | 3/30 | 28 | 8.1 | 11.7 | 7.2 |
| Butte | 3/31 | 41 | 14.0 | 17.9 | --- |
| Cochetopa Pass (B) | 3/29 | 23 | 5.0 | 9.6 | 5.9 |
| Crested Butte | 3/31 | 43 | 14.2 | 18.0 | 13.0 |
| Keystone | 3/31 | 53 | 19.5 | 25.3 | 20.0 |
| Lake City | 3/30 | 27 | 7.0 | 10.7 | 8.0 |
| Mesa Lakes (B) | 3/25 | 46 | 15.3 | 22.5 | 17.6 |
| McClure Pass | 3/30 | 47 | 16.9 | 22.6 | 15.1 |
| Park Cone | 3/30 | 40 | 11.3 | 12.7 | 10.6 |
| Park Reservoir | 3/26 | 74 | 22.5 | 30.1 | 23.8 |
| Porphyry Creek | 3/31 | 51 | 14.1 | 22.6 | 16.9 |
| Tomichi | 3/31 | 39 | 10.5 | 18.2 | 12.6 |
| <u>Surface Creek</u> | | | | | |
| Alexander Lake | 3/30 | 58 | 21.1 | 26.5 | 22.8 |
| Mesa Lakes | 3/25 | 46 | 15.3 | 22.5 | 17.6 |
| Park Reservoir | 3/26 | 74 | 22.5 | 30.1 | 23.8 |
| <u>Uncompahgre River</u> | | | | | |
| Ironton Park | 3/30 | 44 | 14.3 | 23.7 | 10.2 |
| Red Mountain Pass | 3/30 | 87 | 32.8 | 41.9 | 31.5 |
| Telluride (B) | 3/29 | 25 | 8.0 | 13.5 | 6.5 |
| COLORADO BASIN | | | | | |
| <u>Blue River</u> | | | | | |
| Blue River | 3/31 | 29 | 8.0 | 10.8 | 8.5 |
| Fremont Pass | 3/30 | 56 | 16.9 | 18.2 | 16.2 |
| Frisco Pass | 3/26 | 26 | 6.8 | 10.6 | 7.4 |
| Grizzly Peak | 3/26 | 51 | 15.3 | 22.3 | 18.9 |
| Hoosier Pass (B) | 3/31 | 42 | 11.7 | 17.5 | 12.9 |
| Shrine Pass | 3/30 | 57 | 16.7 | 20.9 | 18.1 |
| Snake River | 3/26 | 25 | 7.0 | 8.7 | 7.9 |
| Summit Ranch | 3/31 | 24 | 6.6 | 8.5 | 7.1 |

| SNOW COURSE | CURRENT INFORMATION | | | PAST RECORD | |
|----------------------------|---------------------|---------------------|------------------------|------------------------|-----------|
| | DATE OF SURVEY | SNOW DEPTH (INCHES) | WATER CONTENT (INCHES) | WATER CONTENT (INCHES) | |
| | | | | LAST YEAR | AVG 58-72 |
| <u>Colorado River</u> | | | | | |
| Arrow | 3/30 | 46 | 13.9 | 16.2 | 13.2 |
| Berthoud Pass | 3/30 | 48 | 14.0 | 15.9 | 15.9 |
| Berthoud Summit | 3/29 | 55 | 16.1 | 19.2 | 19.7 |
| Cooper Hill | 4/02 | 41 | 11.1 | 14.4 | 11.3 |
| Fiddler Gulch | 4/01 | 47 | 13.5 | 16.6 | 14.5 |
| Glenmar Ranch | 3/30 | 30 | 8.8 | 10.4 | 8.5 |
| Gore Pass | 3/31 | 34 | 11.5 | 13.4 | 10.2 |
| Grand Lake | 3/28 | 31 | 8.0 | 8.8 | 8.2 |
| Lake Irene | 3/28 | 59 | 19.5 | 21.6 | 20.9 |
| Lapland | 3/30 | 28 | 8.0 | 11.3 | 10.4 |
| Lulu | 3/31 | 59 | 19.4 | 21.6 | 18.7 |
| Lynx Pass | 3/31 | 42 | 13.8 | 16.8 | 12.8 |
| McKenzie Gulch | 3/30 | 24 | 6.8 | 9.2 | 5.0 |
| Middle Fork | 3/30 | 31 | 8.7 | 10.9 | 9.9 |
| Milner | 3/28 | 36 | 11.3 | 12.6 | 13.6 |
| North Inlet | 3/29 | 26 | 7.2 | 8.6 | 8.7 |
| Pando | 3/30 | 35 | 9.7 | 13.1 | 10.3 |
| Phantom Valley | 3/28 | 28 | 8.3 | 10.3 | 10.8 |
| Ranch Creek | 3/30 | 36 | 8.6 | 9.2 | 9.9 |
| Tennessee Pass (B) | 3/30 | 38 | 10.8 | 13.5 | 10.6 |
| Vail Pass | Destroyed | | --- | 18.6 | 17.3 |
| Vasquez | 3/30 | 43 | 11.7 | 12.8 | 12.9 |
| <u>Roaring Fork</u> | | | | | |
| Aspen | 3/28 | 58 | 18.7 | 21.4 | 17.1 |
| Independence Pass | 3/26 | 47 | 15.0 | 20.2 | 17.5 |
| Ivanhoe | 3/29 | 62 | 18.1 | 21.7 | 18.1 |
| Kiln | 3/29 | 48 | 13.7 | 16.8 | --- |
| Lift | 3/28 | 52 | 17.0 | 26.3 | 17.8 |
| McClure Pass | 3/30 | 47 | 16.9 | 22.6 | 15.1 |
| Nast | 3/29 | 24 | 6.5 | 9.9 | 5.6 |
| North Lost Trail | 3/30 | 45 | 16.3 | 19.8 | 14.6 |
| <u>Williams Fork River</u> | | | | | |
| Glenmar Ranch | 3/30 | 30 | 8.8 | 10.4 | 8.5 |
| Jones Pass | 3/30 | 50 | 14.0 | 16.7 | 15.5 |
| Middle Fork | 3/30 | 31 | 8.7 | 10.9 | 9.9 |
| <u>Willow Creek</u> | | | | | |
| Granby | 3/30 | 26 | 7.3 | 8.1 | 7.5 |
| Willow Cr. Pass | 3/30 | 41 | 12.2 | 14.0 | 12.7 |
| <u>Plateau Creek</u> | | | | | |
| Mesa Lakes | 3/25 | 46 | 15.3 | 22.5 | 17.6 |
| Park Reservoir | 3/26 | 74 | 22.5 | 30.1 | 23.8 |
| Trickle Divide | 3/26 | 80 | 25.0 | 30.2 | 25.9 |
| YAMPA BASIN | | | | | |
| <u>Elk River</u> | | | | | |
| Elk River | 3/25 | 47 | 15.4 | 21.2 | 17.8 |
| Hahn's Peak | 3/25 | 40 | 12.7 | 17.9 | 13.7 |
| <u>White River</u> | | | | | |
| Burro Mountain | 3/30 | 56 | 19.1 | 21.9 | 17.2 |
| Rio Blanco | 3/29 | 46 | 13.9 | 18.3 | 15.7 |
| <u>Yampa River</u> | | | | | |
| Bear River | 3/26 | 42 | 11.6 | 13.7 | 11.2 |
| Columbine (B) | 3/25 | 58 | 20.3 | 29.5 | 24.0 |
| Crosho | 3/26 | 46 | 13.4 | 16.5 | --- |
| Dry Lake | 3/29 | 53 | 17.0 | 23.1 | 20.0 |
| Lynx Pass (B) | 3/31 | 42 | 13.8 | 16.8 | 12.8 |
| Rabbit Ears | 3/25 | 59 | 19.4 | 30.0 | 25.9 |
| Tower | 3/29 | 114 | 40.2 | 54.5 | --- |
| Yampa View | 3/25 | 41 | 12.6 | 18.4 | 14.6 |

NOTE: NS - No Survey
(B) - On Adjacent Drainage

LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

STATE

Colorado State Engineer
New Mexico State Engineer
Nebraska State Engineer
Colorado State University Experiment Station
Rocky Mountain Forest and Range Experiment Station

FEDERAL

Department of Agriculture

Forest Service
Soil Conservation Service

Department of Interior

Bureau of Reclamation
Geological Survey
National Park Service
Indian Service

Department of Commerce

NOAA, National Weather Service

Defence Department

Army Engineer Corps

Atomic Energy Commission

INVESTOR OWNED UTILITIES

Colorado Public Service Company
Public Service Company of New Mexico

MUNICIPALITIES

| | |
|-----------------|----------------------|
| City of Denver | City of Greeley |
| City of Boulder | City of Fort Collins |

WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association
Colorado River Water Conservation District

IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company
San Luis Valley Irrigation District
Santa Maria Reservoir Company
Costilla Land Company
Uncompahgre Valley Water Users' Association
Twin Lakes Reservoir and Canal Company
Trinchera Irrigation Co.

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